chromosome counts may vary greatly within the species. He has identified counts of 2n=92, 2n=144 and 2n=168. The gamete, having half of the somatic count (HAPLOID), thus will have basic counts of 46, 72 or 84 chromosomes. Other combinations may be identified by careful study. It is also apparent that such divergence in counts will cause some cultivars to be considered sterile to crossing, when actually a cross could be obtained with a cultivar of a similar count.

Cells may on occasions fuse together to increase the chromosome count to multiples of the haploid count. These cells may be triploid or tetraploid and may be fixed in the cultivar. This fusion has been artificially induced through the use of chemicals and also by treatment using atomic particles. It is suggested to you that some of our existing cultivars that are apparently completely sterile, although exhibiting apparently perfect pollen and stigma, may be triploid or tetraploid plants.

When two cultivars are crossed, the seedlings are called F-1 for that cross. Succeding generations are knows as F-2, F-3, etc. Generally, the F-1 will have the best chance of inheriting the better qualities of each parent. Plant breeders often use the back cross method of concentrating superior genes by crossing the F-1 back on to the superior parent and even crossing this seedling again back on the superior parent. Since it requires about two years to bloom a seedling Hibiscus, this method will take many years to produce results.

Occasionally, a cultivar may exhibit entirely new characteristics in bloom or growth habits. If this is caused by a cellular change, it is known as a mutation or sport and thus becomes a new cultivar that can be asexually propagated. No one knows exactly what may cause this re-arrangement of genes. It may be heat, cold or physical damage or disturbance by atomic particles. If this changed characteristic cannot be used in breeding it is called a CHIMERA.

(Next page)

To illustrate this, a recent sport occurred on a plant of mine, "Y-Hose", a good single yellow. The sport has very unusual white and green variegated foliage, but the bloom remains as before. I am confident that no genes exist in this bloom to carry on variegation to future progeny. Therefore it is a chimera.

-oOo-

The next time you see the Executive Secretary ask him about the dehydrated Frenchman.

-O-

Women have reached middle age when their shoes pinch more often than men do.

-O-

Forbidden fruit
is responsible
for many a bad
jam.

-O-

Spend your vacation in your own back yard and your friends will know the kind of person you are - - - - sensible, imaginative, home-loving, - - -and broke.

-O-

Frank Pagano says the only way a dollar will go as far as it did ten years ago is when it rolls under the bed.

-O-

If you find any mistakes in this bulletin, please consider that it was put there on purpose. We publish something for everyone, including those who are always looking for mistakes. -O-

He: "Now what's wrong?"
She: "Why in the world don't you get some system about your clothes? Take me for instance. I always wear my week day clothes on week days and my Sunday clothes on Sundays.
He: "May i come over on your birthday?"